

IN THE CLAIMS

Please amend the claims as follows, substituting any amended claim(s) for the corresponding pending claim(s):

1. (Currently Amended) A method to identify a modulation format of a data frame received from a servicing base station by a wireless terminal in a cellular wireless communication system, the method comprises:

- receiving a first Radio Frequency (RF) burst of the data frame from the servicing base station, wherein the first RF burst carries a plurality of modulated symbols and a burst index;
- when the burst index of the first RF burst comes within a predetermined index value, extracting a training sequence from the first RF burst, wherein the training sequence ~~comprises modulated symbols~~ includes modulated symbols;
- processing the training sequence assuming a first modulation format to produce a first channel energy;
- processing the training sequence assuming a second modulation format to produce a second channel energy;
- determining a greater channel energy from the first channel energy and the second channel energy;
- receiving a subsequent RF burst within the data frame from the servicing base station, wherein the subsequent RF burst carries a plurality of modulated symbols and a subsequent burst index;
- when the subsequent burst index comes within the predetermined index value, processing the training sequence assuming the first modulation format to produce a subsequent first channel energy;
- accumulating the subsequent first channel energy with the first channel energy to produce an accumulated first channel energy;
- processing the training sequence assuming the second modulation format to produce a subsequent second channel energy;
- accumulating the subsequent second channel energy with the second channel energy to produce an accumulated second channel energy;
- determining a greater accumulated channel energy from the first accumulated channel energy and the second accumulated channel energy; and
- identifying the modulation format of the data frame as corresponding to the greater accumulated channel energy.

2. (Currently Amended) The method of claim 1, wherein:
processing the training sequence(s) assuming the first modulation format to produce the first channel energy ~~further comprises derotating the symbols~~ further includes derotating the symbols within the training sequence; and
processing the training sequence(s) assuming the second modulation format to produce the second channel energy ~~further comprises derotating the symbols~~ further includes derotating the symbols within the training sequence.

3. (Original) The method of claim 2, wherein:
the first modulation format is GMSK; and
the second modulation format is 8PSK.

4. (Previously Presented) The method of claim 1, wherein extracting the training sequence further comprises:
processing the first RF burst to produce a baseband signal; and
extracting the training sequence from the baseband signal.

5. (Cancelled)

6. (Currently Amended) The method of claim 1, further comprising:
receiving a ~~subsequent RF burst~~ further subsequent RF burst within the data frame from the servicing base station, wherein the ~~subsequent RF burst~~ further subsequent RF burst carries a plurality of modulated symbols;
identifying a modulation format of the ~~subsequent RF burst~~ further subsequent RF burst based on accumulated channel energies;
comparing the identified modulation format of the ~~subsequent RF burst~~ further subsequent RF burst to the identified modulation format of previous RF bursts of the data frame;
demodulating the ~~subsequent RF burst~~ further subsequent RF burst according to the identified modulation format of ~~subsequent RF burst~~ further subsequent RF burst; and
discarding the prior RF bursts of the data frame when the identified modulation format of the ~~subsequent RF burst~~ further subsequent RF burst compares unfavorably to the identified modulation format of prior RF bursts.

Claims 7-37. (Cancelled)